

APEX PUBLIC SCHOOL

CLASS XII

HOLIDAY HOMEWORK  
(2025-2026)

# “Embark on a Summer Quest”

Dear Students,

As the summer sun brightens our days, it also brings a unique opportunity to explore, learn, and grow beyond the classroom walls. This holiday homework isn't just about completing assignments—it's your chance to delve deeper into the subjects you love, discover new ideas, and prepare for the exciting challenges of Class XII. Imagine this as your personal quest, where every activity brings you closer to mastering your knowledge and creativity. Let this summer be a journey of curiosity, discovery, and achievement!

# ENGLISH CORE (301)

## **SECTION A: ENGLISH LITERATURE**

### **1. Festival Reflection Essay:**

Write a short essay (150–200 words) on any cultural or family tradition you follow during festivals like Raksha Bandhan, Diwali, or Independence Day. Describe its significance and how it strengthens bonds among people.

### **2. Poem & Collage – “My Mother, My World”**

Compose a heartfelt poem dedicated to your mother, expressing your emotions, memories, and bond with her. The poem should reflect themes of love, care, sacrifice, or childhood memories. Alongside the poem, create a collage using photos, cut-outs, drawings, or words that symbolically represent your relationship with your mother. The collage should visually bring out the emotional connection and gratitude you feel for her.

### **3. Poster Activity – ‘The Tiger King’ (Vistas)**

Design a creative poster highlighting the satire and message behind The Tiger King. Use visuals and witty captions to capture the King’s obsession with power and the ironic twist of fate.

## **SECTION B: ENGLISH GRAMMAR**

### **4. Mini Dictionary:**

Create a personal mini dictionary containing:

1. 20 new vocabulary words with meanings and example sentences
2. 20 idioms/phrases with meanings and example usage
3. Add small illustrations (images) or icons to make it visually engaging.

## **SECTION C: PROJECT WORK (As per CBSE Guidelines)**

**Choose any ONE topic from the list below and prepare a comprehensive Project-Portfolio:**

1. Importance of Mother Tongue
2. Lost Childhoods
3. Overcoming Fears (Phobia)
4. Transforming Lives Through Kindness and Empathy
5. Gandhian Principles
6. How to Conduct an Interview
7. How to Become a Public Speaker
8. Care of the Elderly
9. Violence Against Women in India
10. Global Warming: Arctic and Antarctic Insights
11. Overcoming Disability
12. Education is Empowerment

13. Mothers: Epitome of Unconditional Love
14. Endangered Species and Wildlife Protection Laws
15. Humanity Beyond Borders: Real-Life Stories of Compassion

**Project-Portfolio Must Include the Following:**

1. Cover Page with title of the project, school details, and student details.
2. Statement of Purpose / Objectives / Goals of the project.
3. Certificate of Completion under the guidance of the English teacher.
4. Student's Action Plan for the completion of the assigned task.
5. Supporting materials such as:
  - Scripts for theatre/role play
  - Questionnaires for interviews
  - Written assignments, essays, survey reports
  - Any other material evidence of learning progress
6. 800–1000 words Essay / Script / Report (based on the selected topic)
7. Student/Group Reflections on the learning experience
8. Add Photographs that capture the positive learning journey
9. List of Resources / Bibliography

**Submission Deadline:**

1st July 2025 (Monday)

No late submissions will be accepted.

Viva will be conducted once school reopens.

# PHYSICS

**Make an investigatory project on following topics according to your roll numbers.**

## ROLL. 1 TO 5

1. To study various factors on which the internal resistance/EMF of a cell depends.

## ROLL. 6 TO 10

2. To study the variations in current flowing in a circuit containing an LDR because of a variation in

(a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).

(b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR.

## ROLL. 11 TO 15

3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.

ROLL. 16 TO 20

4. To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer.

ROLL. 21 TO 25

5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.

ROLL. 26 TO 30

6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.

ROLL.31 TO 35

7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.

ROLL. 36 ONWARDS

8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.



# CHEMISTRY

- Solve NCERT back questions of ch -1, 2 & 3.
- Practice PYQs of Ch - 1 , 2 & 3
- Complete first four experiments in your record file.

# BIOLOGY

## **1. Write short notes on:**

- a) Human Genome Project
- b) Sewage Treatment
- c) DNA Replication, Transcription unit, Transcription and Post transcriptional modification, Genetic code, Structure of t RNA and Translation
- d) Drugs and Alcohol Abuse
- e) Restriction Enzymes and Vectors

**2. Discuss how the current interest in the genetic manipulation of microbes, plants and animals has raised serious ethical issues. Elaborate the measures taken by the government to eradicate the same.**

**3. Do the back exercise of NCERT textbook for chapters 6, 8, 10, 11 and 12**



# *ECONOMICS*

**Make project file as per given instructions:**

## **XII C&D**

Roll no. 1-5: Micro and Small-scale industries

Roll no. 6-10: Role of RBI in control of credit

Roll no. 11-15: Self-help group

Roll no 16-20: Organic farming – back to the nature

Roll no: 21-25: Government budget & its component

Roll no. 26-30: Aatma-Nirbhar Bharat

Roll no. 31&32: micro & small-scale industries

## **XII E:**

Roll no. 2, 4 & 26: Role of RBI in control of credit

Roll no. 3, 9 & 19: Self-help group

## **XII F:**

Roll no. 3, 17 & 20: Government budget & its component

Roll no. 4: Role of RBI in control of credit

Roll no. 10: Self-help group

Roll no 12, 18 & 24: Organic farming – back to the nature

# **BUSINESS STUDIES**

Students are supposed to select one unit out of four and are required to make only **ONE project** from the selected unit. (Consist of one project of 20 marks)

## **Project One: Elements of Business Environment (Choose any one topic)**

- Changes witnessed over the last few years on mode of packaging and its economic impact.
  - The reasons behind changes in the following:
    - Changing role of the women in the past 25 years relating to joint families, nuclear families, women as a bread earner of the family, changes in the requirement trend of mixers, washing machines, micro wave and standard of living.
    - A study on child labour laws, its implementation and consequences.
    - The state of 'anti plastic campaign,' the law, its effects and implementation
- .

## **Project Two: Principles of Management**

The students are required to visit any one of the following:

1. A departmental store.
2. An Industrial unit.
3. A fast food outlet.
4. Any other organisation approved by the teacher.

They are required to observe the application of the general Principles of management advocated by Fayol.

### **Project Three: Stock Exchange**

The purpose of this project is to teach school students the values of investing and utilising the stock market. This project also teaches important lessons about the economy, mathematics and financial responsibility.

### **Project Four: Marketing**

Identify one product/ which the students may like to manufacture/provide and cover all 4 P's. For detailed information refer to reference book.

Prepare the given Project as per the CBSE guidelines. (Each learner will present the research work in Project File only)

Project file should have cover page, certificate page, acknowledgment page, index, introduction, sub topics according to index, conclusion and bibliography.

### **Assignment Work (Do Assignment from the reference book)**

I. Revise Chapter 1,2 ,3 and 4 and while revising solve the questions in the School Notebook: -

- a) Ch- 1 nature and Purpose of Management (Long answer type Case study-based questions)
- b) Ch – 2 Principles of Management (Long answer type Case study-based questions)
- c) Ch-3 Business Environment (Long answer type Case study-based questions)
- d) Ch-4 Planning (Long answer type Case study-based questions)

II. Prepare either 20 MCQs / True or false / Fill in the blanks from each chapter ( 1,2, 3, 4). Submit in the form of hard copy.

## MATHS

### LAB MANUAL ACTIVITY NO.

1. Verify that the relation  $R$  in the set  $L$  of all lines in a plane, defined by  $R = \{(l, m) : l \perp m\}$  is symmetric but neither reflexive nor transitive.
2. To verify that the relation  $R$  in the set  $L$  of all lines in a plane, defined by  $R = \{(l, m) : l \parallel m\}$  is an equivalence relation.
3. To demonstrate a function which is not one-one but is onto.
4. To draw the graph of  $-\sin x$ , using the graph of  $\sin x$  and demonstrate the concept of mirror reflection (about the line  $y = x$ ).
5. To explore the principal value of the function  $\sin$  inverse using a unit circle.
6. To sketch the graphs of  $a^x$  and  $\log_a x$ ,  $a > 0$ ,  $a \neq 1$  and to examine that they are mirror images of each other.

7. To establish a relationship between common logarithm (to the base 10) and natural logarithm (to the base  $e$ ) of the number  $x$ .
8. To find analytically the limit of a function  $f(x)$  at  $x = c$  and also to check the continuity of the function at that point.
9. To verify that for a function  $f$  to be continuous at given point  $x=0$  ( $\epsilon$  is arbitrarily small provided.  $x=0$  sufficiently small).
10. To demonstrate a function which is one-one but not onto.

- All the Activities should be completed in your school lab manual.
- Every student should form one Working model on Topic
  1. Relation and Function
  2. Derivatives and Application of Derivative
  3. Matrices and Determinants

Complete all Previous Year Question of C.B.S.E chapter 2 to 4 that already shared in Class group shared.

# POLITICAL SCIENCE

## **PART: 1 PROJECT BASED**

✂ Tips for Choosing and Making Your Project:

Pick a topic that genuinely interests you.

Use charts, newspaper clippings, and case studies to enhance presentation.

Include CBSE-specified elements: title page, certificate, index, introduction, conclusion, and bibliography.

Use NCERT Political Science books as your base reference.

Number of pages 30 to 40

1.NAM- 1961 to present times.

2.Division of Germany with special focus on the construction and dismantling of the Berlin Wall.

3.CIS-Central Asian Republics

4. Disintegration of USSR with special focus on Gorbachev.

5. Arab Spring

6. Cover the negative as well as positive aspects of relationship between India and the following countries.

Focus on any one of the following (current updates should be highlighted):

a) Relationship between India and Russia

- b) Relationship between India and China
- c) Relationship between India and Pakistan
- d) Relationship between India and Bangladesh

7. ASEAN

8. European Union and BREXIT

9. BRICS

10. SAARC

11. India's Nuclear Policy

12. United Nations with focus on India's candidature in Security Council.

13. UN Agencies – UNICEF, UNESCO, WHO

14. Pandemics: Covid 19- Its global impact (focus on worldwide cooperation and preparedness along with controversies (please collect newspaper clippings for the same)

15. Partition of India-Theory behind it and its legacy

16. Comparison between NITI AAYOG and Planning Commission and their contribution in India's Development.

17. Election 2019- Rise of BJP and Downfall of Congress (1989-2019).

18. Emergency – A blot on Indian Democracy

19. NDA III and NDA IV – Social and Economic welfare programmes.

### **PART: B Learning and writing**

Complete your notes

Learn taught chapters.

**Submit on the first day after summer break.**



# SOCIOLOGY

**“The function of sociology, as of every science, is to reveal that which is hidden.” - Pierre Bourdieu.**

Prepare and complete your sociology project according to your individual topic, following these instructions:

1. Write the project in your own handwriting.
2. Add pictures, photographs, and press releases wherever necessary.
3. Number each page.
4. Follow this sequence:
  - Cover page
  - Acknowledgement
  - Index
  - Introduction
  - Statement of Purpose
  - Objectives
  - Hypothesis
  - Methodology
  - Collection and Analysis of Data
  - Limitation
  - Conclusion
  - Bibliography

Ensure each heading starts on a fresh page and maintains the given sequence.

**Additional Guidelines:-**

- The project should be in your handwriting.-
- Add creativity to the project.
- Include pictures and handwork where needed (refer to Chapter 7, Book 1 for assistance).

**Note:** No binding is required now. Final binding will be done after verification by the subject teacher after the summer break.

**Additional Task:** Complete your sociology notebook.

# HISTORY

## **GERNERAL GUIDELINES**

Steps involved in the conduct of the project: Students may work upon the following lines as suggested:

- Choose a Title/Topic
- Need of the Study, Objective of the Study
- Hypothesis
- Content -Timeline, Maps, Mind maps, Pictures, etc. (Organization of Material/ Data)

- Analysing the Material/Data for Conclusion
- Draw the Relevant Conclusion
- Bibliography

### **Expected Checklist for the Project Work:**

- Introduction of topic/ title
- Identifying the causes, events, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of strategies suggested during research
- Validity, reliability, appropriateness, and relevance of data used for research work and for Presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

### **FEW SUGGESTIVE TOPICS FOR CLASS XII PROJECTS**

1. The Indus Valley Civilization-Archaeological Excavations and New Perspectives (ROLL NO – 1,19 )
2. The History and Legacy of Mauryan Empire (ROLL NO -2,20 )
3. “Mahabharat”- The Great Epic of India (ROLL NO -3,21 )
4. The History and Culture of the Vedic period (ROLL NO -4,22 )
5. Buddha Charita(ROLL NO -5,23 )

6. Bhakti Movement- Multiple Interpretations and Commentaries. (ROLL NO -6,24 )
7. The Mystical Dimensions of Sufism(ROLL NO -7,25)
8. Global Legacy of Gandhian Ideas(ROLL NO -8,26 )
9. The Architectural Culture of the Vijayanagar Empire(ROLL NO -9)
10. Life of Women in the Mughal Rural India (ROLL NO -10)
11. Comparative Analysis of the Land Revenue Systems Introduced by the Britishers in India (ROLL NO -11 )
12. The Revolt of 1857- Causes; Planning & Coordination; Leadership, Vision of Unity (ROLL NO -12 )
13. The Philosophy of Guru Nanak Dev(ROLL NO -13)
14. The Vision of Kabir (ROLL NO -14)
15. An Insight into the Indian Constitution (ROLL NO -15)
16. Comparative Study of Stupas and Pillar Edict. (ROLL NO -16)
17. Comparative Study of Mughal and Vijayanagar Architecture (ROLL NO -17)
18. A Comprehensive History of Jainism (ROLL NO -18)

## **LEGAL STUDIES**

- Revise Unit 2 and Unit 3

# COMPUTER SCIENCE

1. Read the following chapters from text book:

- a. Ch 1 - Python Revision Tour – I
- b. Ch 7 - RDBMS and SQL
- c. Ch 8 – Interface Python with Mysql

**2. Do given Practical worksheet and submit printouts for the Practical Record File.**

3. Complete the exercise and assignment questions of the above-mentioned chapters from book.
4. Solve the assignments given on class group.
5. Revise the theoretical concepts of programming
6. Read the Chapter Networking and Concepts which will be started after summer break.
7. Plan for the topic of the project, group members in the project and submit the same after summer break.
8. Prepare Activity/Practical file containing 5 questions each from following topics:
- a) Conditional Programming and Iterative Programming
  - b) String, Lists, Tuples and Dictionary
  - c) User defined functions
  - d) Interface python with Mysql
9. Do at least 50 SQL commands done in the class for the practical file and submit printouts.

# INFORMATION PRACTICES

1. Read the following chapters from text book:

Ch 3 - Database Management and SQL

Ch 4 - SQL Functions

**2. Do given Practical worksheet and submit printouts for the Practical Record File.**

3. Complete the exercise and assignment questions of the above chapters from book.

a. Revise the theoretical concepts of programming and MySQL

4. Read the Chapter Networking and Societal Impacts which will be started after summer break.

5. Plan for the topic of the project, group members in the project and submit the same after summer break.

6. Prepare Activity/Practical file containing 60 SQL commands from chapter 3 & 4

# PHYSICAL EDUCATION

- Complete LAB MANUAL and NOTEBOOK.

# ACCOUNTANCY

## FUNDAMENTALS OF PARTNERSHIP

1. X and Y are partners in the firm. X has given a Loan of ₹ 1, 20,000 on 1<sup>st</sup> October 2021. The profit of the firm at the end of the year was ₹.2,00,000. The Interest on Loan is paid on 10<sup>th</sup> April 2022. Record necessary Journal entry of the above transactions. Also show the profit and Loss Appropriation Account.

(Learning Objective: Interest on Partner's Loan)

2. A and B are partners sharing profit and Loss equally. From the information given below show the treatment of the following if

a) If capital is fixed

b) If capital is fluctuating (Learning Objective: Fixed and Fluctuating Capital)

Particulars	A ₹	B ₹
Capital as on 1.4.2021	1,50,000	2,00,000
Drawings	30,000	20,000
Interest on Drawings	2,000	1,500
Interest On Capital	7,500	10,000
Commission	4,000	-----
Profit	50000	50000



3. A present the following Profit and Loss Appropriation Account to his partner B for the year ended 31<sup>st</sup> March ,2017

Particulars	Amount ₹	Particulars	Amount ₹
<b>To Salary:</b>		<b>By Profit &amp; Loss A/c</b>	<b>40,200</b>
A                   10,000			
B                   8,000			
<u>                        </u>	<b>18,000</b>		
<b>To Interest on Capital:</b>			
A                   3,000			
B                   2,000			
<u>                        </u>	<b>5,000</b>		
<b>To Interest on A's</b>	<b>1200</b>		
<b>Loan@12%</b>			
<b>To Profit transfer to capital</b>			
<b>:</b>			
A----3/4	<b>16,000</b>		
<b>12,000</b>			
B --- 1 / 4	<b>40,200</b>		<b>40,200</b>
<b>4,000</b>			
<u>                        </u>			

B feels that he is not fairly treated by A. There is no partnership deed.

You are required to prepare Profit and Loss Appropriation account as per the provision of partnership Act,1932.

(Learning Objective: Partnership Deed and P & L Appropriation A/C)

4. X and Y are partners in a firm sharing profits in the ratio of 2:1. Their capitals were ₹ 3,00,000 and ₹ 2,00,000 respectively. As per the partnership deed, Interest on Capital was entitled @6% p.a. Pass the necessary Journal entry for Interest On Capital of the following cases:

- i. If profit for the year was ₹ 40,000
- ii. If profit for the year was ₹ 20,000
- iii. If Loss for the year was ₹ 10,000
- If profit for the year was ₹ 40,000 as a Charge against profit.

(Learning Objective: Profit fall short to pay IOC)

5. On March 31<sup>st</sup>, 2022 after close of books of accounts, the capital accounts of A and B stood at ₹ 60,000 and ₹ 80,000 respectively. The Profit for the year ₹ 36,000 was distributed equally. The Drawings made by A were ₹ 2,000 and by B ₹ 4,000 during the year. As per partnership deed, interest on capital was entitled @10% p.a. Calculate the Interest on Capital of A and B.

(Learning Objective: When closing capital given to calculate IOC)

6. Arun and Barun are partners in a firm. Their capital accounts showed the balance on 1<sup>st</sup> April 2021 as ₹ 2,00,000 and ₹ 1,50,000 respectively. During the year 2021-22, Arun introduced additional capital of Rs. 10,000 on August 1, 2021 and Barun withdrew capital of ₹ 30,000 on October 1, 2021.

Interest on capital is allowed @10 % p.a. Calculate Interest on capital.

(Learning Objective: Capital introduced and withdrawn & IOC)

7. A, B and C are partners in a firm .A is entitled a commission of 10% ,B and C are partners in a firm .A is entitled a commission of 10% of the Net Profit before charging his commission .B is entitled a commission of the net profit after charging his commission and C is entitled a commission on the Net Profit after charging all commission including his commission. Net profit for the year ending 31<sup>st</sup> March 2021 before charging any commission is ₹ .2,20,000. Calculate Partners commission.

(Learning Objective: Commission on Net profit Before & After)

8. Calculate Interest on Drawings @6% p.a. under following cases:

- i. A withdraw ₹.120,000
- ii. A withdraw ₹ 4,000 at the beginning of each month.
- iii. A withdraw ₹.3,000 at the middle of each month
- iv. A withdraw ₹ 2,000 at the end of each month
- v. A withdraw ₹ 4,000 at the beginning of each quarter
- vi. A withdraw ₹ .3000 at the mid of each quarter.
- vii. A withdraw ₹.12,000 at the end of each quarter.
- viii. A withdraw ₹ .1000 at the beginning of each month for six months.
- ix. A withdraw ₹.2,000 at the mid of each month for six months.
- x. A withdraw ₹.12,000 at the end of each month for six months.
- xi. A withdraw (₹)

1 <sup>st</sup> June 2021	1,000
1 <sup>st</sup> August 2021	750
30 <sup>th</sup> September 2021	1250

1<sup>st</sup> December 2021

500

1<sup>st</sup> February 2022

500

(Learning Objective: Calculation of Interest on Drawings)

9. R, S & T are partners with capital of ₹.3,00,000; ₹.2,50,000 and ₹ 4,00,000 respectively on 1<sup>st</sup> April 2021. Their Partnership deed provides:

- i. The 10% of Net Profit Transfer to General Reserve.
- ii. Partners are allowed 5% Interest on capital and are to be charged 6% p.a. interest on Drawings.
- iii. T is entitled for a Salary of ₹.50,000 and S a commission @10 % on the divisible profit and his commission.

During the year each partner has withdrawn ₹ 30,000. On 1<sup>st</sup> October Z has given a loan of ₹ 6, 00,000.

The Net profit of the firm is ₹ 6, 00,000. Prepare Profit and Loss Appropriation Account and Partners Capital Account.

(Learning Objective: Comprehensive Problem)

10. Aryan and Binod are partners having fixed capital of Rs.2, 00,000 and Rs, 3,00,000 respectively. On 31<sup>st</sup> March 2022 after finalization of Final accounts it was subsequently found that Interest on Capital@10% being omitted to allow. The Net Profit was Rs.2, 20,000.

Record an adjustment entry to the above effect.

(Learning Objective: Past adjustment with single error)

11. Kiran and Rao were partners in a firm. Their Fixed capital was: Kiran Rs.9,00,000 and Rao .4,00, 000. The profit for the year Rs. 2,78,000 was distributed equally without considering the following provision of the

Partnership deed:

Interest on Capital @9% p.a.

Kiran's Salary Rs.50,000 per year and Rao's Salary Rs.3,000 per month.

Record adjustment entry.

The profit-Sharing Ratio should be 7:3

(Learning Objective: Past adjustments with multiple errors)

12. P, Q and R are partners in a firm, sharing profits in the ratio of 5:3:2.Their Fixed capital were ₹ 3,00,000 : ₹.2,00,000 and ₹.1,00,000 respectively .For the year 31<sup>st</sup> March 2022,Interest on Capital was credited to their capital accounts @8% instead of 10% p.a. Showing your working clearly record necessary adjustment entry.

(Learning Objective: Past adjustment: Error of commission)

13. A, B and C were Partner in the firm. On 1<sup>st</sup> April 2022, their capitals stood at ₹ 5,00, 000;. ₹ 2,50,000; ₹ .2,50,000 respectively. As per the provision of the partnership deed:

- i. C was entitled for a salary of ₹ 5,000 per month.
- ii. A was entitled for a commission of ₹.80,000.
- iii. Partners were entitled to interest on capital at 6% p.a.
- iv. Partners will share profits in the ratio of their capital

Net Profit for the year ended on 31<sup>st</sup> March 2022 was ₹ .3,00,000 which was divided

equally, without providing for the above provision. Showing your working clearly, Pass necessary adjustment entry

(Learning Objective: Past adjustment: When PSR also applied wrong)

14. A, B and C are three partners sharing profit and Loss Equally. A has given a guarantee of minimum profit ₹.50000 every year. The Net Profit for the year ending 31<sup>st</sup> march 2022 was ₹ 1,20,000. Show the distribution of profit.

(Learning Objective: Guarantee of Profit)

15. Moli, Bhola and Raj were partners in a firm sharing profits and losses in the ratio of 3:3:4. Their partnership deed provided for the following:

- i. Interest on capital @5% p.a.
- ii. Interest on Drawings @12%p.a.
- iii. Interest on Partner's loan @6%p.a.
- iv. Moli was allowed an annual salary of ₹ 4, 000. Bhola was allowed a commission of 10% of net profit as shown by Profit and Loss Account and Raj was guaranteed a profit of ₹.1,50,000 after making all the adjustments as per partnership deed.

Their fixed capital was Moli: ₹.5,00,000; Bhola: ₹. 8,00,000 and Raj: ₹.4,00,000. On 1<sup>st</sup> April 2021 Bhola extended a Loan of ₹.1, 00,000 to the firm. The Net Profit of the firm for the year ended 31<sup>st</sup> March 2022 before interest on Bhola 's Loan was ₹.3,06,000.

Prepare Profit and Loss Appropriation Account, Partners' Capital Account and Current Accounts assuming that Bhola withdrew ₹.5,000 at the end of each Month, Moli withdrew



₹.10,000 at the end of each quarter and Raj withdrew ₹ 40,000 at the end of each half year.

(Learning Objective: Comprehensive question with Guarantee of Profit)

16. Ajay, Binay and Chetan were partners sharing profits in the ratio of 3:3:2. The partnership deed provides for the following:

- i. Salary of ₹ 2, 000 per quarter to Ajay and Binay.
- ii. Chetan was entitled to a commission of ₹ 8, 000.
- iii. Binay was guaranteed a profit of ₹ 50, 000 p.a.

The profit of the firm for the year ended 31<sup>st</sup> March 2022 was ₹.1, 50,000 which was distributed among Ajay, Binay and Chetan in the ratio of 2:2:1 without taking into consideration of Partnership deed. Pass necessary Adjustment entry.

(Learning Objective: Past Adjustment with Guarantee of Profit)



## **{VALUATION OF GOODWILL}**

### **METHOD: SIMPLE AVERAGE PROFIT METHOD**

1. Goodwill of the firm is valued at two years' purchase of the average profit of 3 years. The profit of the last 3 years were ` 22, 000; ` 10, 000; ` 5000 (loss).

Calculate Value of Goodwill.

2. Goodwill of the firm is valued at two years' purchase of the average profit of 4 years. The profit of the last 4 years were ` 22, 000; ` 10, 000; ` 10, 000; ` 15, 000. There was an abnormal loss of ` 5, 000.

Calculate Value of Goodwill.

3. Arvind purchases the business of Kirpa on 1<sup>st</sup> April 2021. The profit of Past three years earned by Kirpa are as under:

2019 - ` 45, 000 (Including Rs.7, 000 profit from sale of Assets)

2020 – ` 50,000 (including Goods lost due to fire Rs.8, 000)

2021 – ` 48,000

Calculate the value of goodwill of the firm based on 2 years' purchase of average profit of last three years.

### **METHOD: WEIGHTED AVERAGE PROFIT METHOD**

4. Goodwill of the firm is valued at two years' purchase of the weighted average profit of 3 years. The profit of the last 3 years were ` 25, 000; ` 15, 000; ` 5,000  
Calculate Value of Goodwill.

### **METHOD: SUPER NORMAL PROFIT METHOD**

5. *The total capital of the firm of Sonam , Geeta & Mohni is ` 1,00,000 and the market rate of return is 15%.The net profit for the last 3 years were ` 30,000 ; ` 36,000 and `42,000. Goodwill is to be valued at 2 years' purchase of the last years' super profits. Calculate the Goodwill of the firm.* {CBSE-2017(compt.)}

6. *Average profit earned by a firm is 1,00,000 which includes undervaluation of stock of 40,000 on an average basis . The capital invested in the business is 6,30,000 and the normal rate of return is 5 % . Calculate goodwill of the firm on the basis of 5 times the super profit. (AI 2015 )*

7. *On 1st April 2020, A firm had assets of 1, 00,000 excluding stock of 20,000. The current liabilities were 10,000 and the balance constituted Partner's Capital Accounts. If the normal rate of return is 8%, the Goodwill of the firm is valued of 60000 at four years purchase of super profit, find the actual profits of the firm.(CBSE sample paper)*

## **METHOD: CAPITALISATION METHOD**

### **A. CAPITALISATION OF AVERAGE PROFIT**

8. Average profit of firm during last few years is 3, 00,000. In similar business, the normal rate of return is 15% of the capital employed. The assets were 17, 00,000 and its liabilities were 2, 00,000.

Calculate the goodwill of the firm by Capitalisation of average profit. (CBSE 2019)

### **B. CAPITALISATION OF SUPER PROFIT**

*9. Average profit of a firm during last few years is 1,50,000 . In similar business, the normal rate of return is 10% of the capital employed. Calculate the value of goodwill by Capitalisation of super profit method if super profit the firm are 50,000.*

*CBSE 2020(C)*

### **Miscellaneous Question:**

From the following information , Calculate value of goodwill of the firm:

a) Capital Employed 12,00,000

b) Net profit of the firm

31<sup>st</sup> March 2019 ----- 4, 00,000; 31<sup>st</sup> March 2020---- 3,60,,000 ; 31<sup>st</sup> March 2021—  
3,20,000

c) Normal Rate of return in the market is 10%.

d) Assets of the firm is 14,00,000 whereas partners' capital is 12,00,000 and outside Liabilities 2,00,000.

Calculate Goodwill:

- i. At three years' purchase of Average Profit
- ii. At three years' purchase of Super Profit.
- iii. On the basis of Capitalisation of Average Profit.
- iv. On the basis of Capitalisation of Super Profit.

### **{Change in profit sharing Ratio}**

1. Reena, Sunita and Monu are partners sharing profit and losses in the ratio of 3:2:1. From 1<sup>st</sup> April ,2015 they decided to share future profits and losses in the ratio of 1:1:1. Calculate sacrifice or gain share of partners.
2. Manoj, Geet and Pankaj are three partners sharing profit and loss equally. On 1<sup>st</sup> April 2018, the decided to share future profit and losses in the ratio of 5:3:2. Calculate sacrificing ratio.
3. Ramesh and Jatin are equal partners. They decided to change the profit-sharing ratio to 3:2 in future. Calculate sacrifice and gain share.

4. Amar, Beena and Chatnya are partners sharing profit and loss equally. They decide that in future, Chatnya will get  $\frac{1}{5}$ <sup>th</sup> share in profit and remaining will be shared by Amar and Beena equally. On the day of change, Firm's goodwill is valued at ₹ 6, 00,000. Give journal entries arising on account of change in profit sharing ratio.

5. Kumar, Gupta and Kavita are partners in a firm sharing profit and losses equally. The firm was engaged in the storage and distribution of canned juice and its godowns were located at three different places in the city. Each godown was being managed individually by Kumar, Gupta and Kavita. Because of increase in Business activities at the go downs managed by Gupta, He had to devote more time. Gupta demanded that his shares in the profit of the firm be increased, to which Kumar and Kavita agreed. The new profit-sharing ratio was agreed to be 1:2:1. For this purpose the goodwill of the firm was valued at two years purchase of the average profits of last five years. The profit of last five years were as follows:

I: ₹ 4,00,000; II: ₹ 4,80,000; III: ₹ 7,33,000; IV (LOSS) ₹ 33,000; V: ₹ 2,20,000.

You are required to:

- i. Calculate the goodwill of the firm.
- ii. Pass necessary journal entries for the treatment of goodwill on change in profit sharing ratio of Kumar, Gupta and Kavita.

6. A, B and C are three partners sharing profit and losses in the ratio of 3:2:1. On 1<sup>st</sup> April 2018 they decided to change the ratio into 1:1:1. The profit and loss account (credit) balance appears in the books amounting to ₹ 30,000.

Record necessary entry if:

- i. Partners don't want to distribute the R&S.
- ii. Partners want to distribute the amount of R&S.

7. A, B and C are partners sharing profits in the ratio of 2:2:1. On 1.4.2018 they decided to share the profit in the ratio of 2:1:1. On that date following balances were appearing in the Balance sheet:

	( ₹ )
General Reserve	57,000
Deferred Revenue Expenditure	50,000
Debit Balance in Profit & loss A/C	25,000

Without distributing the above items among partners, it was decided to pass an adjustment entry.

8. Joyti, Amar and Disha are partners sharing profits in the ratio of 2:2:1. They decided to share future profits in the ratio of 3:2:1 with effect from 1<sup>st</sup> April 2018. An extract of their Balance sheet as at 31<sup>st</sup> March 2018 is as under:



<b>Liabilities</b>	<b>Amount ₹</b>	<b>Assets</b>	<b>Amount ₹</b>
<b>Workmen compensation fund</b>	<b>60,000</b>	<b>Investment (at cost)</b>	<b>2,60,000</b>
<b>Investment Fluctuation fund</b>	<b>25,000</b>		

Show the journal entries in the following alternative cases:

- i. If no adjustment is given.
- ii. If claim for compensation is estimated ₹ 60,000.
- iii. If claim for compensation is admitted ₹ 20,000.
- iv. If claim for compensation is admitted ₹ 90,000.
- v. If market value of investment is ₹ 2,20,000.
- vi. If market value of investment is ₹ 3,00,000.

9. Ashok, Bhim and Chetan were partners in a firm sharing profits in the ratio of 3:2:1. Their Balance Sheet as on 31st March 2015 was as follows:



Assets	Amount ₹	Liabilities	Amount ₹
Creditors	1,00,000	Land	1,00,000
Bills payable	40,000	Building	1,00,000
General Reserve	60,000	Plant	2,00,000
Capital Accounts:		Stock	80,000
Ashok            2,00,000		Debtor	60,000
<u>Bhim</u> 1,00,000		Bank	10,000
<u>Chetan</u> <u>50,000</u>	3,50,000		
	5,50,000		5,50,000

Ashok, Bhim and Chetan decided to share the future profits equally *w.e.f.* 1<sup>st</sup> April, 2015. For this it was agreed that:

- Goodwill of the firm be valued at ₹ 3, 00,000.
- Land be revalued at ₹ 1, 60,000 and building be depreciated by 6%.
- Creditors of ₹ 12,000 were not likely to be claimed and hence to be written off.
- Partners want to show the revised value of Assets and Liabilities in the books.

Prepare Revaluation account, Capital accounts of partners and revised Balance sheet.

10. R, S and T are partners sharing profit and losses in the ratio of 5:3:2. Their Balance Sheet as at 31st March 2024 was as follows:

Liabilities		₹	Assets		₹
Sundry Creditors		1,90,000	Bank Balance		2,00,000
General Reserves		1,10,000	Sundry Debtors		1,10,000
Capital A/cs			Less: Provision for D/D		<u>10,000</u>
R	3,00,000		Stock		2,00,000
S	1,80,000		Furniture		50,000
T	<u>1,20,000</u>	6,00,000	Computers		3,00,000
		9,00,000			9,00,000

Profit Sharing Ratio among the partners was agreed to be 2:2:1 w.e.f. 1<sup>st</sup> April 2024.

They agreed to the followings:

- Stock to be increased to 2,20,000.
- Provision for doubtful Debts to be reduced by 2,000
- Furniture to be reduced by 20 %.
- Computers to be reduced to 2,70,000.
- Goodwill of the firm is valued at 1,00,000.

The partners decided to show the Assets, liabilities, General Reserve and Profit & Loss Account at the same values in the Balance Sheet of the new firm.

Pass an Adjustment entry giving the effect to the above arrangement and prepare Balance Sheet after adjustments.

